Federal Aviation Administration – <u>Regulations and Policies</u> Aviation Rulemaking Advisory Committee

Transport Airplane and Engine Issue Area Engine Harmonization Working Group Task 14 – Overtorque

Task Assignment

[Federal Register: October 20, 1998 (Volume 63, Number 202)] [Notices]

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DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

Aviation Rulemaking Advisory Committee; Transport Airplane and Engine Issues--New Tasks

AGENCY: Federal Aviation Administration (FAA), DOT.

ACTION: Notice of new task assignments for the Aviation Rulemaking Advisory Committee (ARAC).

SUMMARY: Notice is given of new tasks assigned to and accepted by the Aviation Rulemaking Advisory Committee (ARAC). This notice informs the public of the activities of ARAC.

FOR FURTHER INFORMATION CONTACT:

Stewart R. Miller, Transport Standards Staff (ANM-110), Federal Aviation Administration, 1601 Lind Avenue, SW., Renton, WA 98055-4056; phone (425) 227-1255; fax (425) 227-1320.

SUPPLEMENTARY INFORMATION:

Background

The **FAA** has established an Aviation Rulemaking Advisory Committee to provide advice and recommendations to the **FAA** Administrator, through the Associate Administrator for Regulation and Certification, on the full range of the **FAA'**s rulemaking activities with respect to aviation-related issues. This includes obtaining advice and recommendations on the **FAA'**s commitment to harmonize its Federal Aviation Regulations (FAR) and practices with its trading partners in Europe and Canada.

One area ARAC deals with is Transport Airplane and Engine Issues. These issues involve the airworthiness standards for transport category airplanes and engines in 14 CFR parts 25, 33, and 35 and parallel provisions in 14 CFR parts 121 and 135.

The Tasks

This notice is to inform the public that the **FAA** has asked ARAC to provide advice and recommendation on the following harmonization tasks:

Task 11: Safety and Failure Analysis

1. JAR-E requires a summary listing of all failures which result in major or hazardous effects and an estimate of the probability of

occurrence of these major and hazardous effects. Part 33 requires an assessment of failures which lead to four specified hazards.

- 2. JAR requires a list of assumptions and the substantiation of those assumptions. Most of the JAR-E assumptions are covered by other Part 33 paragraphs.
 - 3. JAR-E includes a unique hazard, ``toxic bleed air''.
- 4. While both regulations require analysis to examine malfunctions and single and multiple failures. Part 33 also requires an examination of improper operation.

The ${\bf FAA}$ expects ARAC to submit its recommendation(s) resulting from this task by January 31, 2000.

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Task 12: Endurance Test Requirements Study

Review and evaluate the feasibility and adequacy of harmonizing: (1) FAR 33.87 and JAR-E 740 endurance test requirements, including thrust reverser operation during endurance testing, in consideration of changes in engine technology; and (2) FAR 33.88 and JAR-E 700 overtemperature/excess operating conditions. The Aviation Rulemaking Advisory Committee (ARAC) is specifically tasked to study these issues and document findings in the form of a report.

The FAA expects ARAC to submit the report by December 31, 1999.

The report must include industry-provided data for an FAA economic analysis. This data should include the effects on small operators and small businesses. The report also should include industry-provided data regarding the record-keeping burden on the public.

Task 13: Fatigue Pressure Test/Analysis

JAR-E 640(b)(2) requires fatigue pressure testing of major engine casings. The FAR's do not have a specific requirement for fatigue pressure tests of major engine casings.

The **FAA** expects ARAC to submit its recommendation(s) resulting from this task by January 31, 1999.

Task 14: Overtorque

JAR-E 820 requires testing at maximum over-torque in combination with maximum turbine-entry and the most critical oil-inlet temperatures for the power turbine to validate transient overtorque values. The **FAA** does not have a specific requirement. Note: The 33.87 endurance test includes requirements that can be used to satisfy JAR-E requirements.

The **FAA** expects ARAC to submit its recommendation(s) resulting from this task by January 31, 1999.

Task 15: Compressor/Fan and Turbine Shafts

- 1. JAR-E 850 establishes probability limits for shaft failures based on the consequences of the failure. If the consequences of a shaft failure are not readily predictable, a test is required to determine the consequences. FAR 33.27(c)(2)(vi) requires all shaft failures, regardless of failure probability, to be considered when determining rotor integrity requirements.
- 2. ACJ E 850 provides guidance to determine the likelihood of a failure at a given location on a shaft and also provides guidance for

conducting tests to determine the dynamic characteristics and fatigue capability of the shaft. The FAR's do not provide any guidance material.

The **FAA** expects ARAC to submit its recommendation(s) resulting from this task by January 31, 2000.

Task 16: Electrical and Electronic Engine Control Systems

- 1. Advisory material exists for JAR-E (AMJ 20X-1). Advisory material does not exist for Part 33, which has caused difficulty during certification programs.
- 2. AMJ 20X-1 clearly defines the engine/airframe substantiation responsibilities, while FAR material does not define these requirements.
- 3. JAR-E states that an electronic control system ``should provide for the aircraft at least the equivalent safety, and the related reliability level, as achieved by Engines/Propellers equipped with hydromechanical control and protection systems.'' Part 33 does not state a desired reliability level. Part 33 states that failures must not result in unsafe conditions.

The **FAA** expects ARAC to submit its recommendation(s) resulting from this task by January 31, 2000.

For the above tasks the working group is to review airworthiness, safety, cost, and other relevant factors related to the specified difference, and reach consensus on harmonization of current Part 33/JAR-E regulations and guidance material.

The **FAA** requests that ARAC draft appropriate regulatory documents with supporting economic and other required analyses, and any other related guidance material or collateral documents to support its recommendations. If the resulting recommendation(s) are one or more notices of proposed rulemaking (NPRM) published by the **FAA**, the **FAA** may ask ARAC to recommend disposition of any substantive comments the **FAA** receives.

Working Group Activity

The Engine Harmonization Working Group is expected to comply with the procedures adopted by ARAC. As part of the procedures, the working group is expected to:

- 1. Recommend a work plan for completion of the tasks, including the rationale supporting such a plan, for consideration at the meeting of ARAC to consider transport airplane and engine issues held following publication of this notice.
- 2. Give a detailed conceptual presentation of the proposed recommendations, prior to proceeding with the work stated in item 3 below.
- 3. Draft appropriate regulatory documents with supporting economic and other required analyses, and/or any other related guidance material or collateral documents the working group determines to be appropriate; or, if new or revised requirements or compliance methods are not recommended, a draft report stating the rationale for not making such recommendations. If the resulting recommendation is one or more notices of proposed rulemaking (NPRM) published by the FAA, the FAA may ask ARAC to recommend disposition of any substantive comments the FAA receives.
- 4. Provide a status report at each meeting of ARAC held to consider transport airplane and engine issues.

The Secretary of Transportation has determined that the formation and use of ARAC are necessary and in the public interest in connection with the performance of duties imposed on the **FAA** by law.

Meetings of ARAC will be open to the public. Meetings of the Engine Harmonization Working Group will not be open to the public, except to the extent that individuals with an interest and expertise are selected to participate. No public announcement of working group meetings will be made.

Issued in Washington, DC, on October 13, 1998.

Joseph A. Hawkins,

Executive Director, Aviation Rulemaking Advisory Committee.

[FR Doc. 98-28038 Filed 10-19-98; 8:45 am]

BILLING CODE 4910-13-M

Recommendation

[4910-13]

DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Parts 1 and 33

[Docket No. XXXXX; Notice No. XX-XXX]

RIN NO. 2120-XXXX

Airworthiness Standards; Aircraft Engine Standards Overtorque Limits

AGENCY: Federal Aviation Administration (FAA) DOT.

ACTION: Notice of proposed rulemaking (NPRM).

SUMMARY: This notice proposes to amend the certification standards for original and amended type certificates for aircraft engines and would introduce standards for maximum overtorque by adding a new engine overtorque test, amending engine ratings and operating limitations, and amending the general definitions. The proposed rule, if adopted, would establish nearly uniform standards for overtorque design and tests for turbopropeller and turboshaft engines that incorporate free power-turbines, certificated in the United States under 14 CFR part 33 and by the Joint Aviation Authorities (JAA) under the Joint Airworthiness Requirements – Engines (JAR-E).

DATE: Send your comments on or before [Insert date 90 days after the date of publication in the Federal Register].

ADDRESSES: You may send comments, identified by the Docket Number *FAA-200X-XXXXX*, using any of the following methods:

DOT Docket web site: Go to http://dms.dot.gov and follow the instructions for sending your comments electronically.

- Government-wide rulemaking web site: Go to http://www.regulations.gov and follow the instructions for sending your comments electronically.
- Mail: Docket Management Facility; US Department of Transportation, 400 Seventh
 Street, S.W., Nassif Building, Room PL-401, Washington, DC 20590-001.
- Fax: 1-202-493-2251.
- Hand Delivery: Room PL-401 on the plaza level of the Nassif Building, 400 Seventh Street, S.W., Washington, DC, between 9 a.m. and 5 p.m., Monday through Friday, except Federal holidays.

For more information on the rulemaking process, see the SUPPLEMENTARY INFORMATION section of this document.

Privacy: We will post all comments we receive, without change, to http://dms.dot.gov, including any personal information you provide. For more information, see the Privacy Act discussion in the SUPPLEMENTARY INFORMATION section of this document.

Docket: To read background documents or comments received, go to http://dms.dot.gov at any time or to Room PL-401 on the plaza level of the Nassif Building, 400 Seventh Street, S.W., Washington, DC, between 9 a.m. and 5 p.m., Monday through Friday, except Federal holidays.

FOR FURTHER INFORMATION CONTACT: Tim Mouzakis, Engine and Propeller Standards Staff, ANE-110, Engine and Propeller Directorate, Aircraft Certification Service, Federal Aviation Administration (FAA), New England Region, 12 New England Executive Park, Burlington, Massachusetts 01803-5299; telephone (781) 238-7114; fax (781) 238-7199; electronic mail "Timoleon.Mouzakis@faa.gov".

SUPPLEMENTARY INFORMATION:

Comments Invited

The FAA invites interested persons to participate in this rulemaking by submitting written comments, data, or views. We also invite comments relating to the economic, environmental, energy, or federalism impacts that might result from adopting the proposals in this document.

The most helpful comments reference a specific portion of the proposal, explain the reason for any recommended change, and include supporting data. We ask that you send us two copies of written comments.

We will file in the docket all comments we receive, as well as a report summarizing each substantive public contact with FAA personnel concerning this proposed rulemaking. The docket is available for public inspection before and after the comment closing date. If you wish to review the docket in person, go to the address in the ADDRESSES section of this preamble between 9:00 a.m. and 5:00 p.m., Monday through Friday, except Federal holidays. You may also review the docket using the Internet at the web address in the ADDRESSES section.

Privacy Act: Using the search function of our docket web site, anyone can find and read the comments received into any of our dockets, including the name of the individual sending the comment (or signing the comment on behalf of an association, business, labor union, etc.). You may review DOT's complete Privacy Act Statement in the Federal Register published on April 11, 2000 (65 FR 19477-78) or you may visit http://dms.dot.gov.

Before acting on this proposal, we will consider all comments we receive on or before the closing date for comments. We will consider comments filed late if it is possible to do so without incurring expense or delay. We may change this proposal in light of the comments we receive.

If you want the FAA to acknowledge receipt of your comments on this proposal, include with your comments a pre-addressed, stamped postcard on which the docket number appears.

We will stamp the date on the postcard and mail it to you.

Availability of Rulemaking Documents

You can get an electronic copy using the Internet by:

- (1) Searching the Department of Transportation's electronic Docket Management System (DMS) web page (http://dms.dot.gov/search);
 - (2) Visiting the Office of Rulemaking's web page at http://www.faa.gov/avr/arm/index.cfm; or
 - (3) Accessing the Government Printing Office's web page at http://www.access.gpo.gov/su_docs/aces/aces140.html.

You can also get a copy by submitting a request to the Federal Aviation Administration, Office of Rulemaking, ARM-1, 800 Independence Avenue S.W, Washington, DC 20591, or by calling (202) 267-9680. Make sure to identify the docket number, notice number, or amendment number of this rulemaking.

Background

Part 33 of Title 14 of the Code of Federal Regulations (14 CFR part 33) prescribes airworthiness standards for original and amended type certificates for aircraft engines. The Joint Aviation Requirements-Engines (JAR-E) prescribes corresponding airworthiness standards for the certification of aircraft engines by the Joint Aviation Authorities (JAA). While part 33 and JAR-E are similar, they differ in several respects. For applicants seeking certification under both part 33 and JAR-E, these differences result in additional costs and delays in the time required for certification.

The FAA is committed to undertaking and supporting the harmonization of part 33 and the JAR-E requirements. In August 1989, the FAA Engine and Propeller Directorate participated

in a meeting with the JAA, Aerospace Industries Association (AIA), and The European Association of Aerospace Industries (AECMA). The purpose of the meeting was to establish a philosophy, guidelines, and a working relationship regarding the resolution of issues identified as needing to be harmonized, including some where new standards are needed. All parties agreed to work in a partnership to jointly address the harmonization effort task. This partnership was later expanded to include Transport Canada, which is the airworthiness authority of Canada.

This proposal has been selected as an Aviation Rulemaking Advisory Committee (ARAC) project. This task was assigned to the Engine Harmonization Working Group (EHWG) of the Transport Airplane and Engine Issues Group (TAEIG) and notice of the task was published in the Federal Register on October 20, 1998 (63 FR 56059). On August 25, 1999, the TAEIG recommended to the FAA that it proceed with the rulemaking. This proposed rule reflects the ARAC recommendations.

Discussion of the Proposed Rule

Currently the FAA has no explicit standards in part 33 for approval of a maximum overtorque limit. Engine manufacturers have obtained FAA approvals of maximum overtorque limit based on other certification engine tests and analysis that did not directly address considerations for maximum overtorque limit, and allowed for different interpretations of the data by different FAA offices. The proposed rule would establish a single standard for all FAA offices to use in approving maximum overtorque limit. In addition, because the JAR-E does contain specific standards for the approval of maximum overtorque limits, US aircraft engine manufacturers face additional costs when seeking certification of their engine designs by the JAA for export.

The proposed rule would nearly harmonize with the JAR-E 820 approach for approving

engine overtorque transients, and would apply only to turbopropeller and turboshaft engines incorporating free power-turbines. The proposed rule would not, however, use the current JAR-E 820 wording but would contain changes to clarify the requirements, and would provide that an overtorque limit associated with operation at the 30-second and 2-minuteOEI ratings is not permitted.

This rule is being adopted to address a condition that can occur on turbopropeller and turboshaft engines with free power turbines. Sudden large changes in rotorcraft/aircraft blade pitch, or power demand, such as an engine failure on a twin engine rotorcraft, can cause a large decrease in rotor/propeller speed. For rotorcraft engine, overtorque conditions may occur during the period that the engine is accelerating the rotor system back to normal operating speeds. This rule prescribes the requirements to establish a maximum transient (20 seconds maximum) overtorque limit.

The following paragraph provides clarification to the test requirement of paragraph (b)(4) in the proposed rule regarding maximum turbine entry temperature.

The torque transmitting components in a free turbine engine are typically the turbine blades, wheels, shafts, and gears (if an internal gearbox exists). Torque has differing effects on the stress levels in these components. For example, the stresses in turbine blades and wheels are dominated by centrifugal loads (and to a lesser extent, by temperature) and the effects of gas loads producing torque have a minor effect on total stress in these components. The stress levels of components such as shafts and gears are typically dominated by the amount of torque they are transmitting. Turbine entry temperatures generally have little effect on the stress levels in shafts and gears. Typically the time spent at maximum steady state temperature and high speed during the § 33.87 endurance test results in higher turbine blade and disc stresses than would occur

during a maximum overtorque event. Therefore, when the evidence of the § 33.87 testing could be used to provide the substantiation, the requirement to run the § 33.84 test at maximum steady state temperature maybe waived.

Paperwork Reduction Act

The Paperwork Reduction Act of 1995 (44 U.S.C. 3507(d)) requires that the FAA consider the impact of paperwork and other information collection burdens imposed on the public. We have determined that there are no new information collection requirements associated with this proposed rule.

International Compatibility

In keeping with U.S. obligations under the Convention on International Civil Aviation, it is FAA policy to comply with International Civil Aviation Organization (ICAO) Standards and Recommended Practices to the maximum extent practicable. The FAA has determined that there are no ICAO Standards and Recommended Practices that correspond to these proposed regulations.

Executive Order 12866 and DOT Regulatory Policies and Procedures

Executive Order 12866, Regulatory Planning and Review, directs the FAA to assess both the costs and benefits of a regulatory change. We are not allowed to propose or adopt a regulation unless we make a reasoned determination that the benefits of the intended regulation justify the costs. Our assessment of this proposal indicates that its economic impact is minimal because the proposed rules, if adopted, would establish nearly uniform standards for overtorque design and tests for turbopropeller and turboshaft engines that incorporate free power-turbines, certificated in the United States under 14 CFR part 33 and by the Joint Aviation Authorities (JAA) under the Joint Airworthiness Requirements – Engines (JAR-E). Because the costs and

benefits do not make it a "significant regulatory action" as defined in the Order, we have not prepared a "regulatory evaluation," which is the written cost/benefit analysis ordinarily required for all rulemaking proposals under the DOT Regulatory Policies and Procedures. We do not need to do a full evaluation where the economic impact of a proposed rule is minimal.

By directly addressing maximum overtorque limits for the affected turbines, the proposed rule is expected to bring about cost savings by (1) reducing manufacturers' administrative and analysis expenses associated with successive requests for the determination of overtorque limits, (2) establishing a single set of performance standards for the affected turbines, rather than allowing the development of multiple standards, which may result in duplicative efforts by various FAA offices, and (3) avoiding the costs incurred by manufacturers who may have to carry out more than one test in order to establish an engine's conformance with both FAA and JAA regulations. Since the proposed rule both clarifies requirements, and was supported in the EHWG by representatives of the affected engine manufacturers, it is expected to either reduce costs or impose no net costs on aircraft engine manufacturers.

The proposed rule is expected to maintain the current level of safety.

Since the rule is expected to have no effect on the level of safety, and provide benefits to manufacturers and the FAA by avoiding potential costs that could result from the existence of differing certification requirements, the proposed rule is expected to be cost-beneficial. The FAA invites comments on the effects of this proposed regulation, and, in particular, would appreciate relevant quantitative data, if available.

Economic Assessment, Regulatory Flexibility Determination, Trade Impact Assessment, and Unfunded Mandates Assessment

Proposed changes to Federal regulations must undergo several economic analyses. First,

Executive Order 12866 directs that each Federal agency shall propose or adopt a regulation only upon a reasoned determination that the benefits of the intended regulation justify its costs.

Second, the Regulatory Flexibility Act of 1980 requires agencies to analyze the economic effect of regulatory changes on small entities. Third, the Trade Agreements Act (19 U.S.C. §§ 2531-2533) prohibits agencies from setting standards that create unnecessary obstacles to the foreign commerce of the United States. In developing U.S. standards, this Trade Act also requires agencies to consider international standards and, where appropriate, use them as the basis of U.S. standards. Fourth, the Unfunded Mandates Reform Act of 1995 (Public Law 104-4) requires agencies to prepare a written assessment of the costs, benefits, and other effects of proposed or final rules that include a Federal mandate likely to result in the expenditure by State, local, or tribal governments, in the aggregate, or by private sector, of \$100 million or more annually (adjusted for inflation).

In conducting these analyses, FAA has determined this rule (1) has benefits that justify its costs, is not a "significant regulatory action" as defined in section 3(f) of Executive Order 12866, and is not "significant" as defined in DOT's Regulatory Policies and Procedures; (2) will not have a significant economic impact on a substantial number of small entities; (3) will not reduce barriers to international trade; and (4) does not impose an unfunded mandate on state, local, or tribal governments, or on the private sector. These analyses, available in the docket, are summarized below.

Regulatory Flexibility Determination

The Regulatory Flexibility Act of 1980 (RFA) directs the FAA to fit regulatory requirements to the scale of the business, organizations, and governmental jurisdictions subject to the regulation. We are required to determine whether a proposed or final action will have a

"significant economic impact on a substantial number of small entities" as they are defined in the Act. If we find that the action will have a significant impact, we must do a "regulatory flexibility analysis."

This proposed rule, if adopted, would establish nearly uniform standards for overtorque design and tests for turbopropeller and turboshaft engines that incorporate free power-turbines, certificated in the United States under 14 CFR part 33 and by the Joint Aviation Authorities (JAA) under the Joint Airworthiness Requirements – Engines (JAR-E). Therefore, we certify that this action will not have a significant economic impact on a substantial number of small entities.

Trade Impact Analysis

The Trade Agreement Act of 1979 prohibits Federal agencies from establishing any standards or engaging in related activities that create unnecessary obstacles to the foreign commerce of the United States. Legitimate domestic objectives, such as safety, are not considered unnecessary obstacles. The statute also requires consideration of international standards and, where appropriate, that they be the basis for U.S. standards. The FAA has assessed the potential effect of this rulemaking and has determined that it will accept the European standards as the basis for U.S. regulations and support the Administration's policy on free trade.

Unfunded Mandates Reform Act.

The Unfunded Mandates Reform Act of 1995 (the Act) is intended, among other things, to curb the practice of imposing unfunded Federal mandates on State, local, and tribal governments. Title II of the Act requires each Federal agency to prepare a written statement assessing the effects of any Federal mandate in a proposed or final agency rule that may result in

an expenditure of \$100 million or more (adjusted annually for inflation) in any one year by State, local, and tribal governments, in the aggregate, or by the private sector; such a mandate is deemed to be a "significant regulatory action."

This NPRM does not contain such a mandate. The requirements of Title II of the Act, therefore, do not apply.

Executive Order 13132, Federalism

The FAA has analyzed this proposed rule under the principles and criteria of Executive Order 13132, Federalism. The FAA has determined that this action would not have a substantial direct effect on the States, on the relationship between the national Government and the States, or on the distribution of power and responsibilities among the various levels of government, and therefore would not have federalism implications.

Environmental Analysis

FAA Order 1050.1D defines FAA actions that may be categorically excluded from preparation of a National Environmental Policy Act (NEPA) environmental impact statement. In accordance with FAA Order 1050.1D, appendix 4, paragraph 4(j), this rulemaking action qualifies for a categorical exclusion.

Energy

The energy impact of the notice has been assessed in accordance with the Energy Policy and Conservation Act (EPCA) P.L. 94-163, as amended (43 U.S.C. 6362) and FAA Order 1053.1. We have determined that the notice is not a major regulatory action under the provisions of the EPCA.

List of Subjects 14 CFR Part 1

Flights, Transportation, Air Safety, Safety, Aviation Safety, Air Transportation, Aircraft,

Airplanes, helicopters, Rotorcraft, Heliports, Engines, Ratings.

List of Subjects in 14 CFR Part 33

Air transportation, Aircraft, Aviation safety, Safety.

The Proposed Amendment

In consideration of the foregoing, the Federal Aviation Administration proposes to amend parts 1 and 33 of Title 14, Code of Federal Regulations (14 CFR parts 1 and 33) as follows:

PART 1 - DEFINITIONS AND ABBREVIATIONS

1. The authority citation for part 1 continues to read as follows:

Authority: 49 USC 106(g), 40113, 44701.

2. Section 1.1 is amended by adding the definition in alphabetical order of "Maximum engine overtorque" to read as follows:

§ 1.1 General definitions

Maximum engine overtorque (applicable only to turbopropeller and turboshaft engines incorporating free power-turbines for all ratings except OEI ratings of two minutes or less) means the maximum torque of the free power-turbine, inadvertent occurrence of which, for periods of up to 20 seconds, will not require rejection of the engine from service, or any maintenance action other than to correct the cause.

PART 33 - AIRWORTHINESS STANDARDS: AIRCRAFT ENGINES

3. The authority citation for part 33 continues to read as follows:

Authority: 49 U.S.C. 106(g), 40113, 44701-44702, 44704

4. Section 33.7 is amended by adding new paragraph (c)(17), and new § 33.84 to read as

follows:

§ 33.7 Engine ratings and operating limitations.

* * * * * *

(c) * *

(17) Maximum engine overtorque for turbopropeller and turboshaft engines incorporating free power-turbines.

§ 33.84. Engine Overtorque Test

- (a) If approval of a maximum engine overtorque is sought for an engine incorporating a free power turbine, compliance with this paragraph must be demonstrated by test.
 - (1) The test may be run as part of the endurance test required by § 33.87 of this part.

Alternatively, tests may be performed on a complete engine or on individual groups of components provided they are shown to be equivalent.

- (2) Upon conclusion of such tests, each engine part or individual groups of components shall meet the requirements of § 33.93(a)(1) and (a)(2) of this part.
 - (b) The test conditions must be as follows:
- (1) A total of 15 minutes run at the maximum engine overtorque to be approved. This may be done in separate runs, each being of at least 2 ½ minute's duration.
- (2) A power turbine rotational speed equal to the highest speed at which the maximum overtorque can occur in service. The test speed shall not be more than the limit speed of take-off or OEI ratings longer than 2 minutes, whichever is higher.
- (3) For engines incorporating a reduction gearbox, a gearbox oil temperature equal to the maximum temperature at which the maximum overtorque could occur in service; and for all other engines, an oil temperature within the normal operating range.
- (4) A turbine entry gas temperature equal to the maximum steady state temperature approved for use during periods longer than 20 seconds, other than conditions associated with 30-second or 2-minutes OEI ratings. The requirement to run the test at the maximum approved steady state temperature may be waived if it can be shown that other testing provides substantiation of the temperature effects when considered in combination with the other parameters identified in paragraphs (b)(1), (b)(2) and (b)(3) of this section.

Issued in Washington, DC, on

FAA Action

Mr. Ron Priddy President, Operations National Air Carrier Association 1100 Wilson Blvd., Suite 1700 Arlington, VA 22209

Dear Mr. Priddy:

The Federal Aviation Administration (FAA) recently completed a regulatory program review. That review focused on prioritizing rulemaking initiatives to more efficiently and effectively use limited industry and regulatory rulemaking resources. The review resulted in an internal Regulation and Certification Rulemaking Priority List that will guide our rulemaking activities, including the tasking of initiatives to the Aviation Rulemaking Advisory Committee (ARAC). Part of the review determined if some rulemaking initiatives could be addressed by other than regulatory means, and considered products of ARAC that have been or are about to be forwarded to us as recommendations.

The Regulatory Agenda will continue to be the vehicle the FAA uses to communicate its rulemaking program to the public and the U.S. government. However, the FAA also wanted to identify for ARAC those ARAC rulemaking initiatives it is considering to handle by alternative actions (see the attached list). At this time, we have not yet determined what those alternative actions may be. We also have not eliminated the possibility that some of these actions in the future could be addressed through rulemaking when resources are available.

If you have any questions, please feel free to contact Gerri Robinson at (202) 267-9678 or gerri.robinson@faa.gov.

Sincerely,

Anthony F. Fazio
Executive Director, Aviation Rulemaking Advisory Committee

Enclosure

cc:

William W. Edmunds, Air Carrier Operation Issues
Sarah MacLeod, Air Carrier/General Aviation Maintenance Issues
James L. Crook, Air Traffic Issues
William H. Schultz, Aircraft Certification Procedures Issues
Ian Redhead, Airport Certification Issues

Billy Glover, Occupant Safety Issues
John Tigue, General Aviation Certification and Operations Issues
David Hilton, Noise Certification Issues
John Swihart, Rotorcraft Issues
Roland B. Liddell, Training and Qualification Issues
Craig Bolt, Transport Airplane and Engine Issues

(Beta) Reverse Thrust and propeller Pitch Setting below the Flight Regime (25.1155)

Fire Protection (33.17)

Rotor Integrity--Overspeed (33.27)

Safety Analysis (33.75)

Rotor Integrity – Over-torque (33.84)

2 Minute/30 Second One Engine Inoperative (OEI) (33.XX)

Bird Strike (25.775, 25.571, 25.631)

Casting Factors (25.621)

Certification of New Propulsion Technologies on Part 23 Airplanes

Electrical and Electronic Engine Control Systems (33.28)

Fast Track Harmonization Project: Engine and APU Loads Conditions (25.361, 25.362)

Fire Protection of Engine Cowling (25.1193(e)(3))

Flight Loads Validation (25.301)

Fuel Vent System Fire Protection (Part 25 and Retrofit Rule for Part 121, 125, and 135)

Ground Gust Conditions (25.415)

Harmonization of Airworthiness Standards Flight Rules, Static Lateral-Directional Stability, and Speed Increase and Recovery Characteristics (25.107(e)(1)(iv), 25.177©, 25.253(a)(3)(4)(50)). Note: 25.107(a)(b)(d) were enveloping tasks also included in this project—They will be included in the enveloping NPRM)

Harmonization of Part 1 Definitions Fireproof and Fire Resistant (25.1)

Jet and High Performance Part 23 Airplanes

Load and Dynamics (Continuous Turbulence Loads) (25.302, 25.305, 25.341 (b), etc.)

Restart Capability (25.903(e))

Standardization of Improved Small Airplane Normal Category Stall Characteristics Requirements (23.777, 23.781, 23.1141, 23.1309, 23.1337, 25.1305) ATTC (25.904/App I)

Cargo Compartment Fire Extinguishing or Suppression Systems (25.851(b), 25.855, 25.857)

Proof of Structure (25.307)

High Altitude Flight (25.365(d))

Fatigue and Damage Tolerance (25.571)

Material Prosperities (25.604)